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From: Konstantin M. Linnik, Ph.d. Phone No.: 617.452.1626  
Fax # Verified by: K. Bastarache No. of Pages (incl. this page) 5

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**Message:**

Dear Maher:

Thank you again for setting up the phone interview. I have attached two published abstracts, for your review, prior to the interview on November 6, 2003.

With best regards,

Konstantin

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**AMERICAN COLLEGE  
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acr/arhp annual scientific meeting

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|---|---|--|
| 1. <input type="checkbox"/> 922. Safety, Pharmacokinetic and Pharmacodynamic Results of a Phase 1 Single and Double Dose Escalation Study of LymphoStat-B (Human Monoclonal Antibody to BlyS) in SLE Patients (Board 317) | R. Furie <sup>1</sup> , W. Stohl <sup>2</sup> , E. Ginzler <sup>3</sup> , M. Becker <sup>4</sup> , N. Mishra <sup>5</sup> , W. Chatham <sup>6</sup> , Joan T. Merrill <sup>7</sup> , A. Weinstein <sup>8</sup> , W. J. McCune <sup>9</sup> , J. Zhong <sup>10</sup> , W. Freimuth <sup>10</sup> , and the LymphoStat-B Study Group. <sup>1</sup> North Shore Univ Hosp, Manhasset, NY; <sup>2</sup> USC, Los Angeles, CA; <sup>3</sup> SUNY Downstate, Brooklyn, NY; <sup>4</sup> U Chicago, Chicago, IL; <sup>5</sup> Wake Forest U, Winston-Salem, NC; <sup>6</sup> UAB, Birmingham, AL; <sup>7</sup> OMRF, Oklahoma City, OK; <sup>8</sup> Wash Hosp Ctr, Washington, DC; <sup>9</sup> U Michigan, Ann Arbor, MI; <sup>10</sup> Human Genome Sciences, Rockville, MD | <b>ACR/ARHP Poster Session B</b><br>SLE Treatment—Biologic Agents<br>Sunday, 8:00 a.m. - 4:00 p.m.<br>Convention Center - Hall D - E               |
| 2. <input type="checkbox"/> 1537. Effects of LymphoStat-B, a BlyS Antagonist, when Administered Intravenously to Cynomolgus Monkeys. (Board 380)  | Wendy B. G. Halpern <sup>1</sup> , Patrick Lappin <sup>2</sup> , Thomas Zanardi <sup>2</sup> , David M. Hilbert <sup>1</sup> , Paul A. Moore <sup>1</sup> , Vivian R. Albert <sup>1</sup> , Kevin P. Baker <sup>1</sup> .<br><sup>1</sup> Human Genome Sciences Inc., Rockville, MD;<br><sup>2</sup> Charles River Laboratories, Sparks, NV   | <b>ACR/ARHP Poster Session C</b><br>SLE—Animal Models II: 8: Cells/Pathogenesis<br>Monday, 8:00 a.m. - 4:00 p.m.<br>Convention Center - Hall D - E |

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 [Print this Page for Your Records](#)[Close Window](#)**Effects of LymphoStat-B, a BLyS Antagonist, when Administered Intravenously to Cynomolgus Monkeys.**

Category: 26 SLE—animal models

Wendy B. G. Halpern<sup>1</sup>, Patrick Lappin<sup>2</sup>, Thomas Zanardi<sup>2</sup>, David M. Hilbert<sup>1</sup>, Paul A. Moore<sup>1</sup>, Vivian R. Albert<sup>1</sup>, Kevin P. Baker<sup>1</sup>. <sup>1</sup>Human Genome Sciences Inc., Rockville, MD; <sup>2</sup>Charles River Laboratories, Sparks, NV

Presentation Number: 1537

Poster Board Number: 380

**Purpose:** This study was conducted to evaluate the tolerability and effects of LymphoStat-B administered over 6 months to cynomolgus monkeys. LymphoStat-B is a fully-human IgG<sub>1</sub> lambda antibody directed against B-lymphocyte stimulator (BLyS). BLyS is a TNF family member that supports B-lymphocyte maturation and survival and has been implicated in the pathogenesis of several autoimmune diseases. LymphoStat-B was developed to antagonize the activity of BLyS in autoimmune disease, where undesirable effects of B-lymphocyte activity may cause or contribute to disease. LymphoStat-B binds specifically and with high affinity to recombinant BLyS protein from both humans and cynomolgus monkeys, and neutralizes their bioactivity *in vitro*.

**Methods:** LymphoStat-B was administered intravenously every other week to 16 monkeys per group at 5, 15 or 50 mg/kg/dose. A vehicle control was administered to 12 monkeys. Pharmacodynamic study endpoints included immunophenotyping of peripheral blood and tissues (spleen and lymph node), as well as standard clinical and anatomic pathology. Pathology endpoints were evaluated after 3 and 6 months of treatment, and after an 8-month treatment free (recovery) period.

**Results:** LymphoStat-B was well tolerated when administered intravenously to cynomolgus monkeys at doses up to 50 mg/kg for as long as 26 weeks, with no treatment-related infections identified. As detected by flow cytometric methods, monkeys exposed to LymphoStat-B had significant decreases in peripheral blood CD20<sup>+</sup> lymphocytes (B-cells) and CD20<sup>+</sup>/CD21<sup>+</sup> lymphocytes (mature B-cells) after 13 weeks of exposure, with concomitant decreases in spleen and lymph node B-lymphocyte representation (both CD20<sup>+</sup> and CD20<sup>+</sup>/CD21<sup>+</sup> cells). In contrast, neither CD3<sup>+</sup> T-lymphocytes nor CD3<sup>+</sup>/CD14<sup>+</sup> monocytes were affected by LymphoStat-B. Microscopically, monkeys treated with LymphoStat-B had mild to marked decreases in the number and size of lymphoid follicles in the white pulp of the spleen. In addition, decreased spleen weights were evident after 26 weeks of exposure in LymphoStat-B treated monkeys. Overall there was a general correlation between peripheral blood B-lymphocytes, tissue B-lymphocyte representation, spleen weights and histologic findings. Total lymphocyte counts were similar in all groups throughout the study. In this study LymphoStat-B administration did not clearly affect globulins, albumin to globulin ratio, or immunoglobulin subclasses. All findings were generally reversible within the 8 month recovery period.

**Conclusions:** These data confirm the specific pharmacologic activity of LymphoStat-B in reducing B-lymphocytes in the cynomolgus monkey. Furthermore, the nonclinical safety profile of LymphoStat-B in monkeys supports its clinical development as a potential therapeutic for the treatment of autoimmune disease.

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